Fuego Status Update October, 2019 (for ATS)

Tim Bird

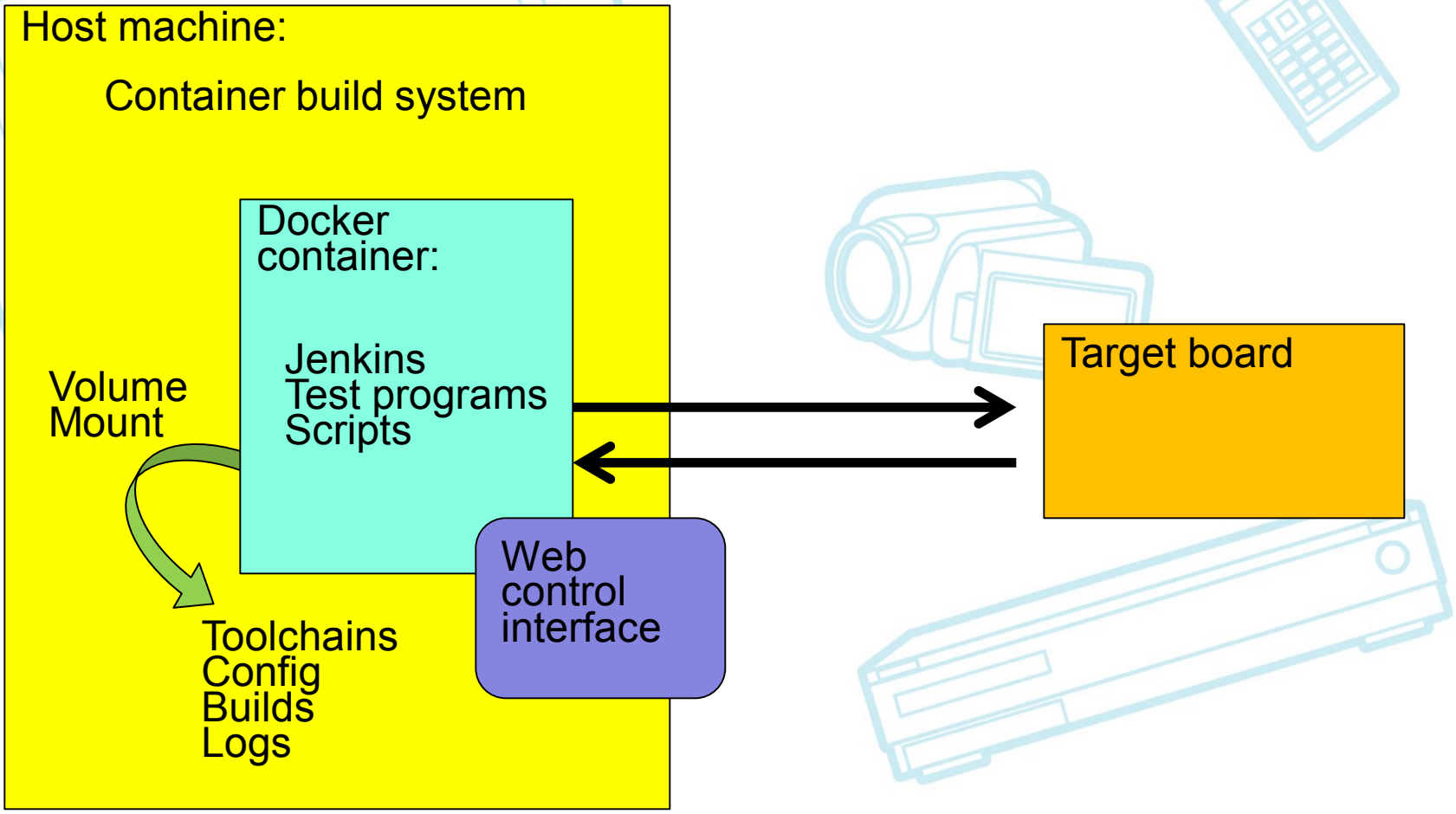
Fuego Test System Maintainer

Sr. Staff Software Engineer, Sony Electronics

Micro-Introduction

- Fuego =
  - Fuego Linux distribution +
  - Jenkins +
  - Text execution core +
  - A collection of tests
- All inside a docker container

Architecture Diagram

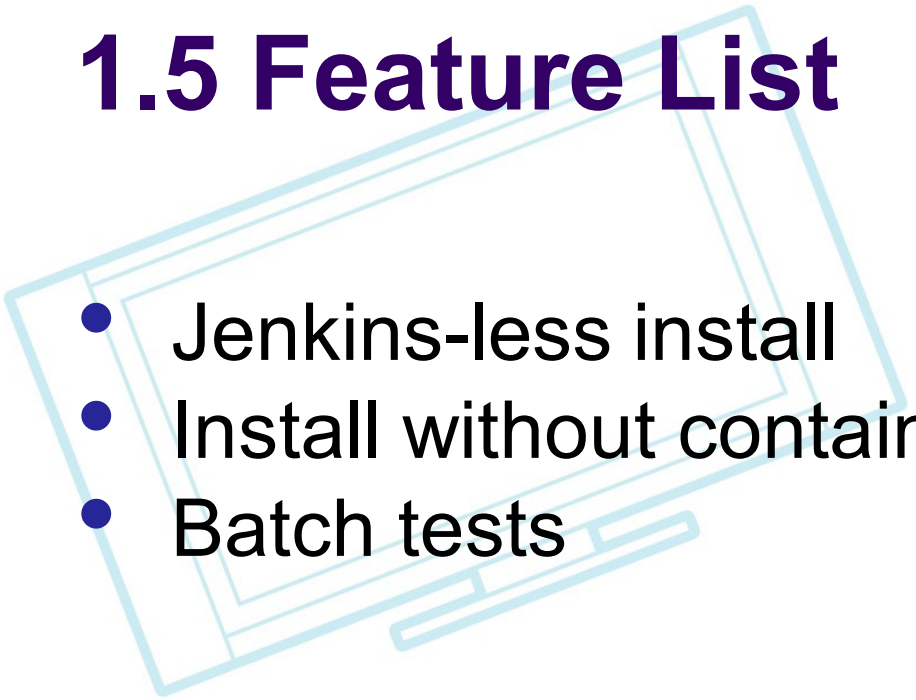


Existing core feature overview

- Distribution of Linux for testing (Fuego distro)
- Build system
  - Architecture-neutral
  - Inherently cross-platform
- Collection of tests
  - Scripts for test execution
  - Results parsing, analysis, and visualization
  - Test phases: pre_test, dependency check, build, deploy, run, post_test
- Host/target oriented
  - Multiple transports
- Integrated Jenkins front end/back end
- ‘ftc’ command line tool

1.5 Feature List

- Jenkins-less install
- Install without container
- Batch tests



Prototype features:

- Support for tests from other frameworks
  - Functional.Linaro
  - Functional.ptest
- Support running a test via LAVA
- Configurable back end (Squad)
  - Should be easy to add kcidb support
- Artifact server support

Roadmap items

- Near term
  - Provisioning support
  - Monitors
  - More tests, and improvements to existing tests
  - Continuing integration with other systems
    - Run a test on an external board manager
  - Create kcidb client
- Longer term
  - Utilize external artifact server for SUT
    - KernelCI triggers and builds?
  - Test store (fserver)
  - Hardware testing

fserver support

- fserver is a test object server
  - Can store tests, build artifacts, test requests, and results
  - Can be used to deliver requests from one host to another, and return the results to the requesting host
  - Is intended to support distributed operation
- Is not complete
- See http://fuegotest.org/wiki/Using_Fuego_with_fserver


Fuego